

# HAND Grenades

REFERENCE  
FIELD RETURN MANUAL

# GENERAL

- This period of instruction will cover the identification, safety regulations and inspection criteria of Hand Grenades.
- This information can be found on the Field Return CD located on the PM AMMO Website and in the *TM 43-0001-29 (Army Ammunition Data Sheets for Grenades)*

# HAND GRENADES, SMOKE

- G930
- G937
- G940
- G945
- G950
- G955
- GG22
- Grenade, Hand HC AN-M8
- Grenade, Hand-Rifle smoke WP M34
- Grenade, Hand green smoke M18
- Grenade, Hand yellow smoke M18
- Grenade, Hand red smoke M18
- Grenade, Hand smoke Violet M18
- Grenade, Hand green smoke L68A1

# G930 Smoke HC AN-M8

## Item Description

The Grenade, Hand Smoke Hexachloroethane (HC) AN-M8 (DODIC G930) is a burning type hand grenade used for marking, screening, and signaling.

The grenade body is a cylinder of thin sheet metal. It is filled with a HC smoke mixture topped with a starter mixture pressed into a zinc cup directly under the fuze opening. The grenade is fuzeed with the M201A1 Pyrotechnic Delay-igniting Fuze. The fuze body contains a primer, first-fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the fuze body are a striker, striker spring, safety lever, and safety pin with pull ring.

Removal of the safety pin permits release of the safety lever. When the safety lever is released, the striker acting under the force of the striker spring forces it away from the grenade



**Grenade, Hand Smoke HC AN-M8  
(DODIC G930)**



# ITEM DESCRIPTION

## Grenade, Hand Smoke HC AN-M8 (DODIC G930)

Removal of the safety pin permits release of the safety lever.

When the safety lever is released, the striker acting under the force of the striker spring forces it away from the grenade

body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the first fire mixture, which in turn initiates the delay element, then finally the ignition mixture. The ignition mixture blows the foil barrier off the end of the fuze body and initiates the starter mixture in the zinc cup. The mixture burns through the zinc cup and initiates the HC smoke mixture. The pressure sensitive tape is blown off the emission holes and the white smoke emits under pressure. The duration of smoke emission is 90 to 135 seconds.

# SAFETY precautions

## WARNING

Do not handle the grenade if its safety pin/pull ring or safety lever is missing. Notify the OIC/NCOIC immediately.

## WARNING

If a grenade is packed upside down (fuze down), do not attempt to remove it from its container. Notify the OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

The DODIC G930 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers that do not meet minimum standards.

# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
<a href="#">Opened inner container</a>	N/A	Proceed to Individual Item inspection.	
Loose grenades (not in containers)	Major	Proceed to Individual Item inspection.	(2)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

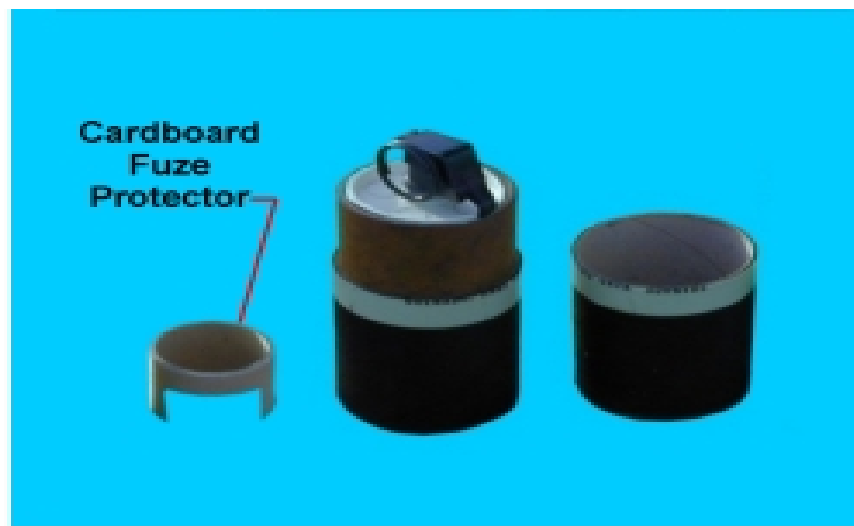
- (1) Prior to repackaging and returning to storage, ensure that the [lot number](#) on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



**Inner Container  
(DODIC G930)**



**Lot Number  
(DODIC G930)**



**Opened Inner Container  
(DODIC G930)**

# Individual item CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <u>M201A1 fuze</u> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number</u> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	

# Individual item CHECKLIST (CONT)

Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Grenade contents loose	Major	Remove defective ammunition and place in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Critical	Remove defective ammunition and place in a holding area. Follow local ASP procedure for disposition.	
Fuze loose, not in full 360 <sup>o</sup> contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

*Note:*

*(1) Prior to repackaging and returning to storage, ensure that the lot number matches the outer container.*

# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TM 43-0001-29	Army Ammunition Data Sheets for Grenades
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

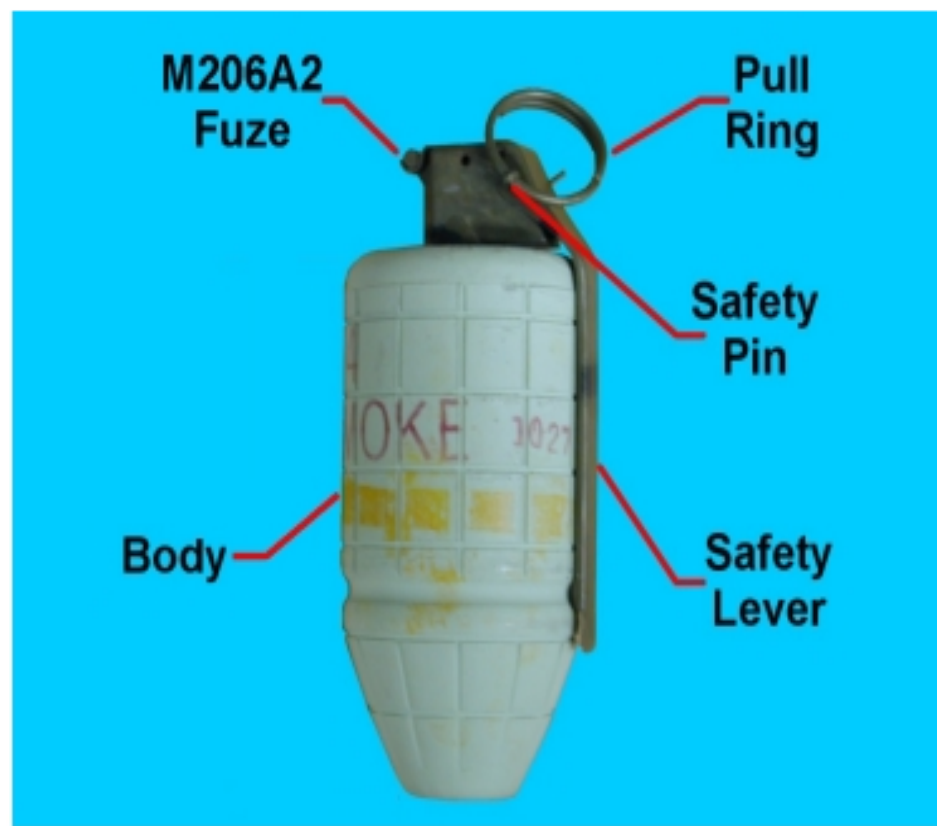


# Smoke WP M34 G937

## Item Description

The Grenade, Hand-Rifle Smoke White Phosphorus (WP) M34 (DODIC G937) is used for signaling, screening, and incendiary purposes. Each grenade is fitted with an M206A2 Pyrotechnic Delay-detonating Fuze, which has a delay time of 4 to 5 seconds. Upon detonation, the grenade body ruptures and exposes the WP filler over a radius of 35 meters. The exposed WP burns for approximately 60 seconds. Since WP burns the flesh, it is also effective against personnel. The grenade body is cylindrical with serrations to aid fragmentation. Its base is tapered to fit into the M1A2 Grenade Projection Adapter. When used as a rifle grenade, it can be projected approximately 185 meters.

Release of the safety clip (on newer models only) and removal of the safety pin permit release of the safety lever. When the safety lever is released, a striker acting under the force of a spring forces it away from the grenade body. The striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense spit of flame that ignites the delay element.



**Grenade, Hand and Rifle Smoke White Phosphorus M34 (DODIC G937)**

# SAFETY PRECAUTIONS

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle hand grenades suspended by the safety pull ring.

## WARNING

Handle the grenade with care to avoid dropping. The grenade body might crack and expose WP if dropped.

## WARNING

Follow local ASP procedures if a leak develops. Notify OIC/NCOIC immediately.

The DODIC G937 is classified as 1.2H munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze. Consult local ASP procedures prior to handling munitions containing White Phosphorus.



Set 3 (White)

# PACKAGING

## Packaging

The packaging configuration for DODIC G937 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-676-2671</a>	M34	Packaging 1 grenade/metal container, 16 containers/wooden box, 36 boxes/wood pallet	<a href="#">1/Metal Container</a>	<a href="#">16/Wooden Box</a>

# OUTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if

# INNER CONTAINER checklist

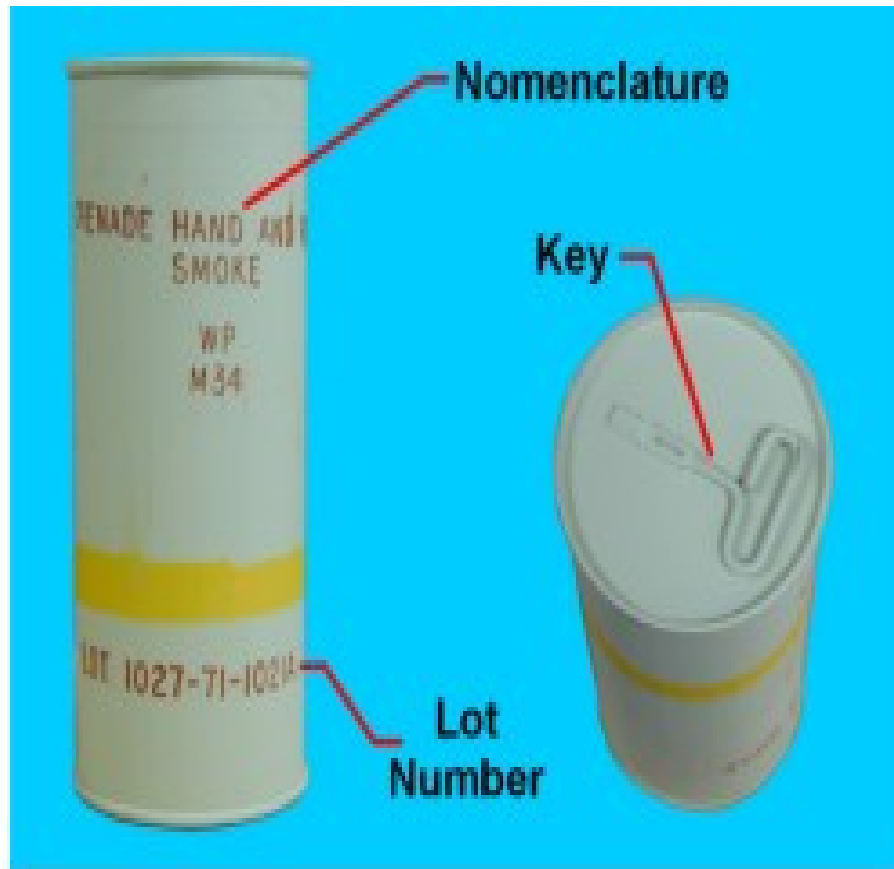
Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Individual Item procedure</a> and attempt to determine missing information. Follow local ASP procedure if the lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing or illegible	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Punctures, cracks, large dents, buckles, heavy rust/corrosion, or other surface damage to the extent that the signal can not be removed by hand	Major	Follow local ASP procedures for disposition.	(3)
Wet/damp container, caked with mud or dirt	Minor	Wipe clean and repack if unopened and undamaged. Do not repack wet containers.	
Small dents, wrinkles, and buckles	Minor	Repack as required if unopened.	
<a href="#">Opened container</a>	Minor	Proceed to Individual Item inspection.	(2)
Missing <a href="#">key</a>	Major	Replace if possible. Otherwise, open the container with appropriate tool and issue as a loose round after inspection.	(2)
Missing cardboard separators	Minor	Replace if possible.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

## Notes:

(1) Prior to repackaging and returning to storage, ensure that the [DODIC, lot number, NSN, and quantity](#) on the inner containers match the markings on the outer container.

(2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

# VISUALS



**Inner Container with Markings  
(DODIC G937)**



**Opened Inner Container  
(DODIC G937)**

# SAFETY PRECAUTIONS

## **WARNING**

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## **WARNING**

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## **WARNING**

Never carry or handle hand grenades suspended by the safety pull ring.

## **WARNING**

Handle the grenade with care to avoid dropping. The grenade body might crack and expose WP if dropped.

## **WARNING**

Follow local ASP procedures if a leaker develops. Notify OIC/NCOIC immediately.



# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
Cracks in body	Critical	Immediately submerge grenade in water-filled tank. Segregate from other munitions. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety clip</u> missing, damaged (on newer models)	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <u>M206A2 fuze</u> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number</u> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	



# INDIVIDUAL ITEM CHECKLIST (cont)

Fuze loose, not in full 360 <sup>o</sup> contact with gasket	Major	Hand-tighten loose fuze. If the fuze cannot be hand tightened, place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

**Note:**

(1) Prior to repackaging and returning to storage, ensure that the lot number match the inner/outer container.



**Lot Number  
(DODIC G937)**

# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TM 43-0001-29	Army Ammunition Data Sheets for Grenades
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

# G940, g945, g950, g955 GRENADE, HAND SMOKE M18



Grenade, Hand Smoke Yellow M18  
(DODIC G945)



Grenade, Hand Smoke Red M18  
(DODIC G950)



Grenade, Hand Green Smoke M18  
(DODIC G940)



Grenade, Hand Smoke Violet M18  
(DODIC G955)

# GENERAL

- The Grenade, Hand Smoke hand grenade used to generate smoke for screening, marking, and signaling. Each grenade will emit smoke for 50 to 135 seconds. The body of thin sheet metal is filled with smoke composition. The M201A1 Fuze is a pyrotechnic delay-igniting fuze. The body contains a primer, first fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades.
- Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the first fire mixture. The fuze delay element, ignition mixture, and grenade starter mixture and filler are initiated in turn by the preceding component. The pressure sensitive tape is blown off the emission holes and the colored smoke emits from these holes.

# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC G955 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# Packaging

## Packaging

The packaging configuration for DODIC G955 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-289-6853</a>	M18	Packaged 1 grenade/fiber container, 16 containers/wooden box, no palletization data	<a href="#">1/Fiber Container</a>	<a href="#">16/Wooden Box</a>

# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers that do not meet the minimum requirements.

# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number, smoke color</a> missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to <a href="#">Individual Item inspection</a> .	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to <a href="#">Individual Item inspection</a> .	(2)
<a href="#">Opened inner container</a>	N/A	Proceed to <a href="#">Individual Item inspection</a> .	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the [lot number](#) on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



# Safety precautions

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

Visually inspect the [individual item](#). The individual item packaging configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the individual item are given in the Inspection Criteria Table for Individual Item below.

# INDIVIDUAL ITEM CHECKLIST (cont)

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<a href="#">Safety pin</a> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Pull ring</a> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <a href="#">M201A1 fuze</a> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Safety lever</a> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Lot number or smoke color</a> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Tape missing, loose, damaged on top and/or bottom <a href="#">emission holes</a>	Minor	Place approved ordnance/duct tape over emission holes.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Grenade contents loose	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	

# INDIVIDUAL ITEM CHECKLIST

Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fuze loose, not in full 360° contact with gasket	Major	Hand-tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fuze protector missing or damaged	Minor	Replace if possible.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

## Note:

(1) Prior to repackaging and returning to storage, ensure that the lot number matches the outer container.



# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

# GG22 Green Smoke L68A1

## Item Description

The Grenade, Hand Green Smoke L68A1 (DODIC GG22) is used for screening, marking, and signaling. Each grenade will emit smoke for 30 to 45 seconds. There are two main components of this grenade: the grenade body and the fuze.

The grenade body consists of an aluminum cylinder. The top of the body has a central opening to which is secured an adaptor, which in turn accommodates the fuze. The base of the grenade consists of an aluminum plate which has a central smoke emission hole sealed by a blow-off disk and covered by two aluminum foil disks. The grenade body contains two pressed pellets which produce the green smoke. The pellets hollow core is topped with primed foam which acts as a starter mixture.

The Centerfire Striker Assembly (CSA) Mk 4 Fuze is a pyrotechnic delay-igniting fuze. The fuze body contains a primer and a pyrotechnic delay column. Assembled to the fuze body are a striker, striker spring, fly-up safety lever, and twist and pull safety pin with pull ring. Safety clips are not required with these grenades.

The twist and pull safety pin cannot be pulled before it is rotated counterclockwise out of the locking position. Removal of the twist and pull safety pin permits release of the fly-up safety lever which remains secured to the grenade by the retaining spring. When the fly-up safety lever is released, the striker acting under the force of the striker spring rotates on its own axis, strikes the percussion primer and fires it. Then, the delay column is initiated, which in turn initiates the primed foam and the two pellets. The pressure build up then causes the blow-off disk and foil disks to be blown from the base of the grenade.



**Grenade, Hand Green Smoke  
L68A1  
(DODIC GG22)**

# SAFETY PRECAUTIONS

## Safety Precautions

### WARNING

Do not handle grenade if safety twist and pull pin, pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

### WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC GG22 is classified as 1.1G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety twist and pull pin and pull ring from the fuze.



# PACKAGING

## Packaging

The packaging configuration for DODIC GG22 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container	Pallet
<a href="#">1330-01-547-5089</a>	L68A1	Packaged 8/M2A1 Metal Can, 96 M2A1 Metal Cans/pallet wood	<a href="#">8/M2A1 Metal Can</a>	<a href="#">120 metal cans/pallet</a>	<a href="#">96 metal cans/pallet</a>



# PALLET INSPECTION CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to <a href="#">Outer Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Broken banding or improper banding	Major	Reband pallet	
Improper pallet build (stacked too high or too wide)	Major	Reband pallet with proper stacking of boxes	
Severely dented or punctured metal drums on pallet	Major	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required. If item is exposed, then remove Severely dented or punctured and inspection item as described <a href="#">individual item</a>	
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined	(2), (3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) At a minimum, the markings should include the [DODIC, lot number, NSN, and quantity](#).

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number, smoke color</a> missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
<a href="#">Opened inner container</a>	N/A	Proceed to Individual Item inspection.	(2)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) At a minimum, the markings should include the [DODIC, lot number, NSN, and quantity](#) and ensure the lot number matches the one on the outer container or pallet.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc..

(3) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

# INDIVIDUAL ITEM CHECKLIST

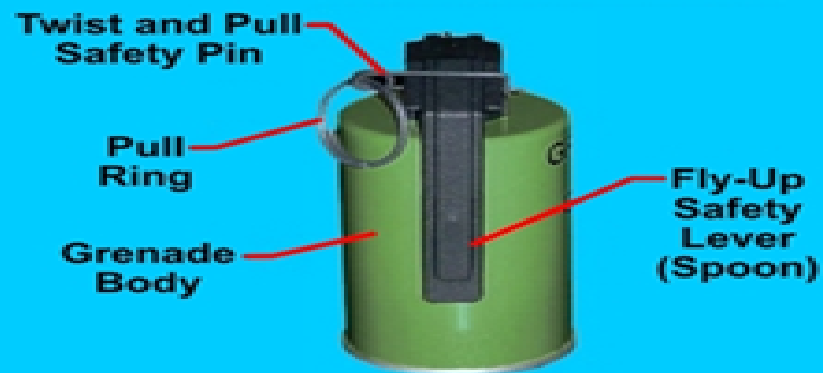
Defect Description	Defect Category	Recommended Action	Notes
Twist and <a href="#">pull safety pin</a> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	(3)
Twist and pull safety pin loose, unauthorized, damaged, not spread	Critical	Secure the twist and pull safety pin with ordnance/duct tape. Place defective ammunition in a holding area.	(3)
Unauthorized fuze installed (other than <a href="#">CSA Mk 4 Fuze</a> )	Critical	Place defective ammunition in a holding area.	(3)
Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area.	(3)
<a href="#">Pull ring</a> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area.	(3)
<a href="#">Fly-up safety lever</a> bent, damaged	Major	Place defective ammunition in a holding area.	(3)
<a href="#">Lot number</a> or <a href="#">smoke color</a> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number or smoke color cannot be determined.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area.	(3)
Aluminum foil disk missing, loose, damaged on <a href="#">emission hole</a>	Minor	Place ordnance/duct tape over emission hole. Place defective ammunition in a holding area.	(3)
Heavy rust or corrosion	Major	Place defective ammunition in a holding area.	(3)
Grenade contents loose	Major	Place defective ammunition in a holding area.	(3)
Fuze loose and/or <a href="#">adapter</a> loose	Major	Hand-tighten loose fuze and/or adapter. If the fuze or adapter cannot be hand tightened, then place the defective ammunition in a holding area.	(3)
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area.	(3)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	(2), (3)
No defects	N/A	Repack the ammunition.	

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the packing

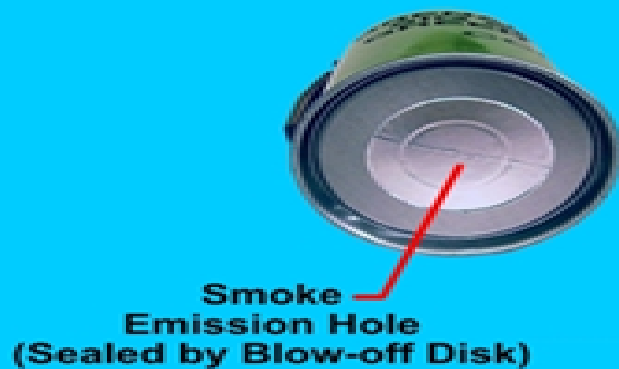
# VISUAL



Side View of Hand Grenade  
Green Smoke L68A1 (DODIC GG22)



Fly-up Safety Lever View Hand Grenade  
Green Smoke L68A1 (DODIC GG22)



Smoke Emission Hole  
(DODIC GG22)

# REFERENCES

- NONE

# Riot grenades

- G92  
4
- G96  
3
- Grenade, Hand Riot Cont CS-1
- Grenade, Hand Riot CS M7 A3

# G924 grenade, hand riot control cs-1 m25a2

## Item Description

The Grenade, Hand Riot Control CS-1 M25A2 (DODIC G924) is a bursting-type riot control grenade designed for use in controlling riots, mobs, and other disturbances. The grenade body consists of two plastic hemispheres cemented together, forming a sphere approximately 3 inches in diameter. It is filled with two ounces of CS-1 micro-pulverized powder, which is irritating to exposed flesh and the upper respiratory passages. Heavy concentrations will cause nausea and vomiting, but no permanent bodily injury. The grenade fuze is a pyrotechnic delay-detonating type, integral with the grenade body. After initiation the delay element will burn for 1.4 to 3 seconds. Upon detonation, the grenade body shatters and disburses the CS-1 agent over a radius of approximately 5 meters.

The safety pin locks the arming sleeve to the grenade body through the slider assembly. It also retains the arming pin in a horizontal position. When the arming pin is removed, the arming sleeve is free to separate from the grenade body. The slider assembly is released and is driven against the firing pin. The firing pin initiates a primer in the end of the slider. The primer initiates the delay column that initiates the detonator. The detonator shatters the grenade body, dispersing the agent.



**Grenade, Hand Riot Control CS-1 M25A2  
(DODIC G924)**

# SAFETY PRECAUTIONS

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## WARNING

Do not handle the grenade if its safety pin/pull ring or safety lever is missing. Notify the OIC/NCOIC immediately.

## WARNING

If a grenade is packed upside down (fuze down), do not attempt to remove it from its container. Notify the OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

The DODIC G924 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# PACKAGING

## Packaging

The packaging configuration for DODIC G924 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-645-6211</a>	M25A2	Packaged 1/metal can, 50 metal cans/wooden box, 24 boxes/wood pallet	<a href="#">1/Metal Can</a>	<a href="#">50/Wooden Box</a>



# Outer container checklist

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) At a minimum, the markings should include the [DODIC](#), [lot number](#), [NSN](#), and [quantity](#).
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container with Markings  
(DODIC G924)



Opened Outer Container  
(DODIC G924)

# Inner container checklist

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
Dents, buckles, heavy rust/corrosion, or other surface damage	Minor	Proceed to Individual Item inspection.	(2)
Missing <a href="#">Key</a>	Major	Replace if possible. Otherwise, follow local ASP procedure for disposition.	
<a href="#">Tab</a> broken, missing, other damaged	Major	Follow local ASP procedure for disposition.	
Opened container	N/A	Proceed to Individual Item inspection.	
Loose grenades (not in containers)	Major	Proceed to Individual Item inspection.	(2)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the [lot number](#) on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

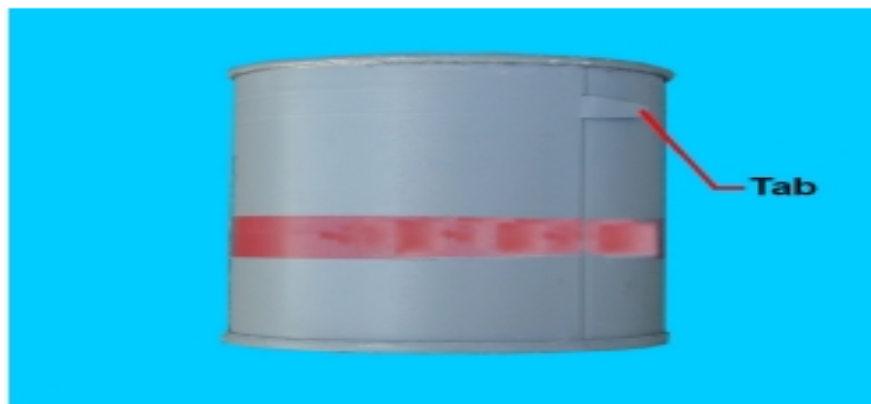
# VISUALS



**Inner Container with Markings  
(DODIC G924)**



**Inner Container Key  
(DODIC G924)**



**Inner Container Tab  
(DODIC G924)**



**Opened Inner Container  
(DODIC G924)**

# SAFETY PRECAUTIONS

## WARNING

Do not handle the grenade if its safety pin/pull ring or safety lever is missing. Notify the OIC/NCOIC immediately.

## WARNING

If a grenade is packed upside down (fuze down), do not attempt to remove it from its container. Notify the OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

Visually inspect the [individual item](#). The individual item packaging configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the individual item are given in the Inspection Criteria Table for Individual Item below.

# INDIVIDUAL ITEM CHECKLIST

Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number</u> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	
Swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that CS is exposed	Critical	Remove defective ammunition and place in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

# REFERENCES

MIL-HDBK 145C

Active Fuze Catalog

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use



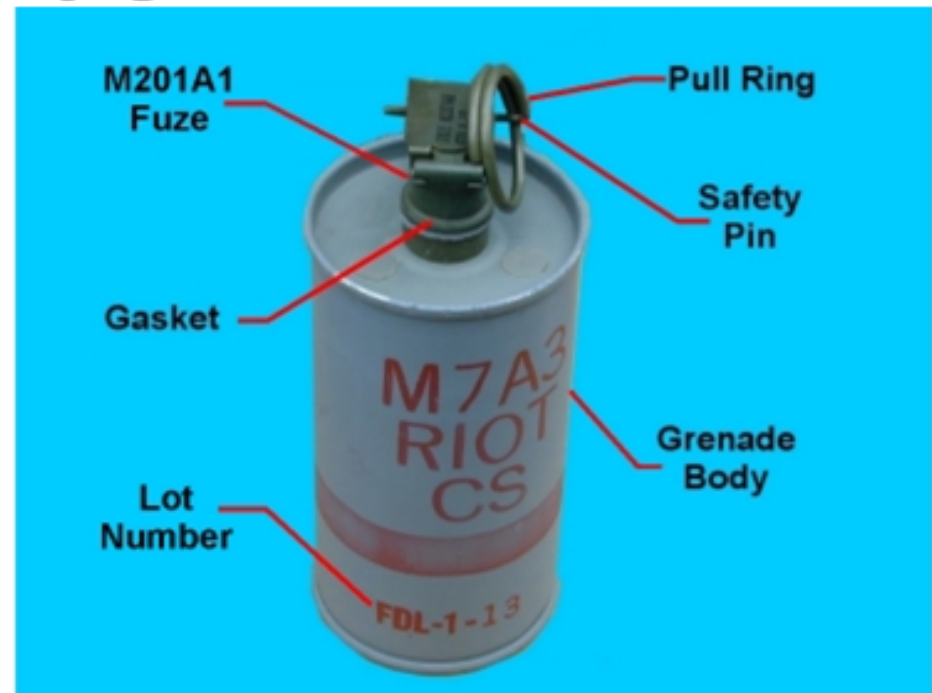
# G963 grenade, had riot cs m7a3

## Item Description

The Grenade, Hand Riot CS M7A3 (DODIC G963) is a burning-type hand grenade used to generate CS (tear) gas. The gas has a powerful irritating effect on eyes and upper respiratory tract. It is used in crowd control and disbursal.

The grenade body is a cylinder of thin sheet metal. It is filled with chemical agent CS mixture topped with a fire starter mixture directly under the fuze opening. The grenade is fuzeed with the M201A1 Pyrotechnic Delay-igniting Fuze. The fuze body contains a primer, first-fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the fuze body are a striker, striker spring, safety lever, and safety pin with pull ring.

Removal of the safety pin permits release of the safety lever. When the safety lever is released, the striker acting under the force of the striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the first fire mixture, which in turn initiates the delay element, then finally the ignition mixture. The ignition mixture blows the foil barrier off the end of the fuze body and initiates the fire starter mixture. The mixture burns and initiates the CS gas mixture. The pressure sensitive tape is blown off the emission holes and the gas emits under pressure. The duration of gas emission is 15 to 35 seconds.



**Grenade, Hand Riot CS M7A3**

Grenade, Hand Riot CS M7A3 (DODIC G963)

# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC G963 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



Set 2 (Yellow)



# PACKAGING

The packaging configuration for DODIC G963 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-965-0802</a> <a href="#">1330-00-128-1027</a> <a href="#">1330-00-799-8816</a>	M7A3	Packaged 1 grenade/fiber container, 16 containers/wooden box, 45 boxes/wood pallet	<a href="#">1/Fiber Container</a>	<a href="#">16/Wooden Box</a>

# OUTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible	Major	Proceed to <u>Inner Container inspection</u> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <u>Individual Item inspection</u> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<u>Opened containers</u> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if

# INNER CONTAINER checklist

Visually inspect the [inner container](#). Do not open factory-sealed and undamaged containers. Sealed and undamaged inner containers can be repacked for storage. The inner container configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the inner container are given in the Inspection Criteria Table for Inner Container below.

**Inspection Criteria Table for Inner Container**

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
<a href="#">Opened inner container</a>	N/A	Proceed to Individual Item inspection.	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

**Notes:**

- (1) Prior to repackaging and returning to storage, ensure that the markings on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

Visually inspect the [individual item](#). The individual item packaging configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the individual item are given in the Inspection Criteria Table for Individual Item below.

# INDIVIDUAL ITEM checklist

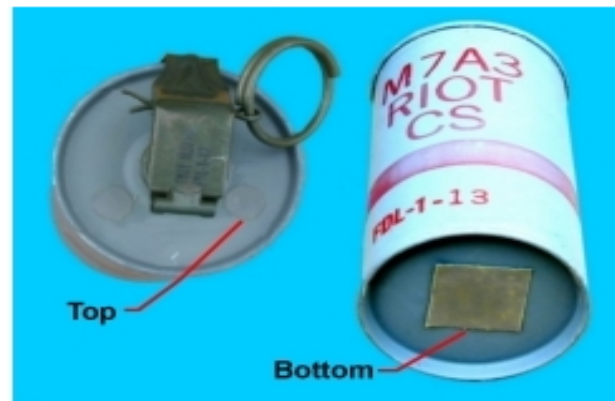
Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <u>M201A1 fuze</u> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number or "CS"</u> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Tape missing, loose, damaged on top and/or bottom <u>emission holes</u>	Minor	Place approved ordnance/duct tape over emission holes.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Grenade contents loose	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	

# INDIVIDUAL ITEM checklist

Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fuze loose, not in full 360° contact with gasket	Major	Hand-tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fuze protector missing or damaged	Minor	Replace if possible.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

## Note:

(1) Prior to repackaging and returning to storage, ensure that the lot number matches the outer container.



Top/Bottom Emission Holes

# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

# INCENDIARY GRENADES

- G90  
0
- Grenade, Hand Incendiary  
Thermite AN-M14



# G900 grenade, hand incendiary thermite (th-3) an-m14

## Item Description

The Grenade, Hand Incendiary Thermite (TH-3) AN-M14 (DODIC G900) is used to provide a source of intense heat to destroy equipment. This incendiary hand grenade generates heat up to 4000° F. The grenade filler will burn for 30 to 45 seconds. The grenade body is made of thin sheet metal. It is filled with an incendiary mixture, TH-3, and First-Fire Mixture VII. This grenade is fuze with the M201A1 Pyrotechnic Delay-igniting Fuze. The body contains a first-fire mixture. Assembled to the body are a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread. Safety clips are not required with this grenade.



Grenade, Hand Incendiary Thermite AN-M14  
(DODIC G900)

# SAFETY PRECAUTIONS

## WARNING

Do not handle the grenade if its safety pin/pull ring or safety lever is missing. Notify the OIC/NCOIC immediately.

## WARNING

If a grenade is packed upside down (fuze down), do not attempt to remove it from its container. Notify the OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

The DODIC G900 is classified as 1.3G munitions and are safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# PACKAGING

## Packaging

The packaging configuration for DODIC G900 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-219-8557</a>	AN-M14	Packaged 1 grenade/metal can, 16 cans/wooden box, 48 boxes/wood pallet	<a href="#">1/Metal Can</a>	<a href="#">16/Wooden Box</a>

# OUTTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible	Major	Proceed to <u>Inner Container inspection</u> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container, crushed containers	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<u>Opened containers</u> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.

# INNER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or Crushed container	Major	Proceed to Individual Item inspection.	(2)
Major rust or corrosion	Minor	Proceed to Individual Item inspection.	(2)
<a href="#">Opening tab is missing</a>	Major	Place defective container in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Opening key is missing</a>	Major	Use opening key from another container. Tape key back to container when finished. Proceed to Individual Item inspection.	
Opened inner container	N/A	Proceed to Individual Item inspection.	
Loose grenades (not in cans)	Major	Proceed to Individual Item inspection.	(2)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the [lot number](#) on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

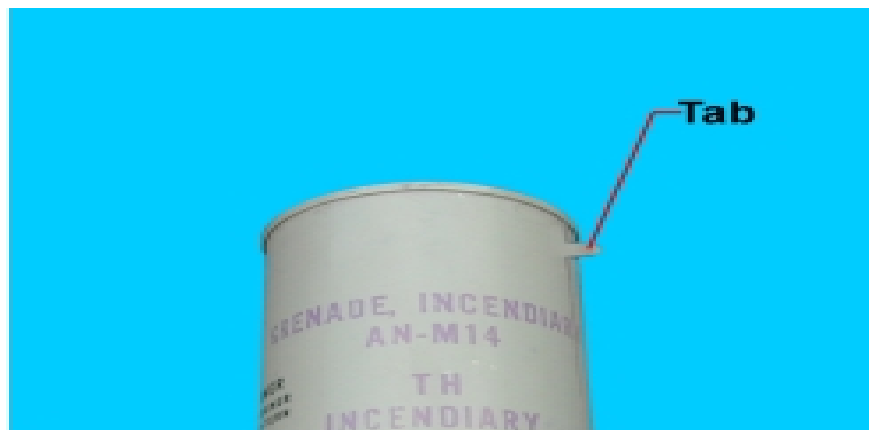
# VISUALS – G900



**Inner Container with Markings  
(DODIC G900)**



**Key  
(DODIC G900)**



**Tab  
(DODIC G900)**



**Opened Inner Container  
(DODIC G900)**

# INDIVIDUAL ITEM SAFETY precautions

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## WARNING

Do not handle the grenade if its safety pin/pull ring or safety lever is missing. Notify the OIC/NCOIC immediately.

## WARNING

If a grenade is packed upside down (fuze down), do not attempt to remove it from its container. Notify the OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

Visually inspect the [individual item](#). The individual item packaging configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the individual item are given in the Inspection Criteria Table for Individual Item below.



# INDIVIDUAL ITEM checklist

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <u>M201A1 fuze</u> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number</u> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Critical	Remove defective ammunition and place in a holding area. Follow local ASP procedure for disposition.	
Fuze loose, not in full 360° contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	



# INDIVIDUAL ITEM checklist

Fuze loose, not in full 360 <sup>o</sup> contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedures for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

## *Note:*

*(1) Prior to repackaging and returning to storage, ensure that the lot number matches the outer container.*

# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

# illuminating

- G89  
5
- Grenade, Hand Illuminating

# G895 grenade, hand illum mk1 mods 0/1/2

## Item Description

The Grenade, Hand Illuminating MK1 Mods 0/1/2 (DODIC G895) is used for illumination and signaling. High temperatures are generated by the pyrotechnic illuminating composition; therefore, these grenades may be used for incendiary purposes against flammable targets.

Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its axis and strikes the percussion primer. The primer initiates the quickmatch, which burns for seven seconds, and then ignites the igniter charge. The igniter charge ignites the first-fire composition, which, in turn, ignites the illuminating charge. Gas pressure produced by burning of the illuminating composition causes the upper half of the grenade body to separate from the lower half. This exposes the burning illuminating charge. The grenade will burn for 25 seconds and will illuminate a 100-meter (328 feet) radius.



**Grenade, Hand Illuminating MK1 Mods 0/1/2  
(DODIC G895)**

# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC G895 is classified as 1.3G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# PACKAGING

## Packaging

The packing configuration for DODIC G895 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-107-1686</a>	MK1 Mods 0/1/2	Packaged 1 grenade/aluminum teartop can, 28 cans/ polystyrene container, 30 containers/wood pallet	<a href="#">1/Aluminum Teartop Can</a>	<a href="#">28/Polystyrene Container</a>
1330-00-935-6092	MK1 Mods 0/1/2	Packaged 1 grenade/aluminum screw top can, 24 cans/ Wooden container, 40 containers/wood pallet	1 /Aluminum screw top can	24 / Wooden container

# OUTTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, water damage, rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (banding, sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers that do not meet minimum standards.

# INNER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Individual Item procedure</a> and attempt to determine missing information. Follow local ASP procedure if the lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing or illegible	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
<a href="#">Opened container</a>	Minor	Proceed to Individual Item inspection.	(2)
Punctures, cracks, large dents, buckles, heavy rust/corrosion other surface damage, crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Minor	Wipe clean and repack if unopened and undamaged. Do not repack wet containers.	
Small dents, wrinkles, and buckles	Minor	Repack as required if unopened.	
Missing or damaged <a href="#">pull ring</a> , other damage to the extent that the grenade can not be removed by hand	Major	Open the container with appropriate tool and issue as a loose round after inspection.	(2)
Missing cardboard separators	Minor	Replace if possible.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

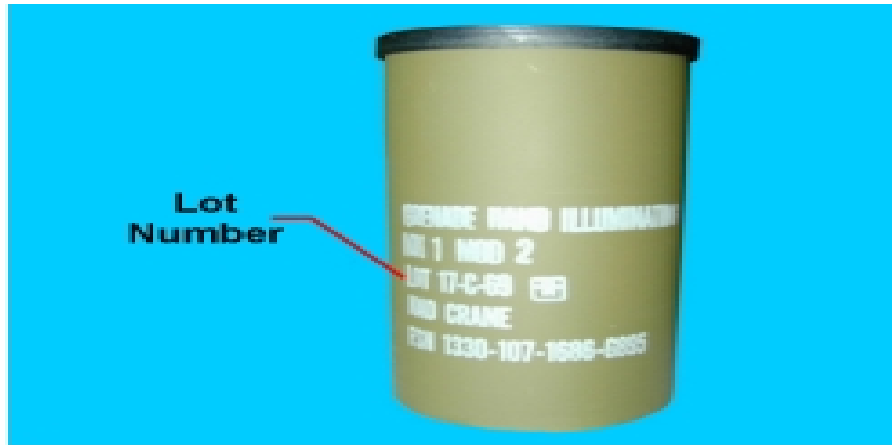
## Notes:

(1) Prior to repackaging and returning to storage, ensure that the [DODIC](#), [lot number](#), [NSN](#), and [quantity](#) on the inner containers match the markings on the outer container.

(2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



# VISUAL



**Inner Container with  
Markings DODIC G895)**



**Teartop Lid  
(DODIC G895)**



**Opened Inner Container  
(DODIC G895)**

# INDIVIDUAL ITEM SAFETY precautions

## WARNING

Do not handle grenade if safety pin/pull ring is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

Visually inspect the [individual item](#). The individual item packaging configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the individual item are given in the Inspection Criteria Table for Individual Item below.

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number</u> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	
Swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Fuze</u> loose, not in full 360° contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	

# INDIVIDUAL ITEM CHECKLIST

<a href="#">Fuze</a> loose, not in full 360° contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedures for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	



Lot Number

# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TM 43-0001-29	Army Ammunition Data Sheets for Grenades
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

# **FRAGMENTATION**

**OFFENSIVE**

# DODIC G911 Offensive MK3A2

## Item Description

The Grenade, Hand Offensive MK3A2 (DODIC G911) is used for blast effect or demolition purposes. The MK3A2 Offensive Hand Grenade has a cylindrical body made of pressed fiber that contains eight ounces of high explosive TNT. This grenade is fuze with the M206A2 Pyrotechnic Delay-detonating Fuze. The shape of the fuze safety lever conforms to the shape of the body of the grenade. The fuze body contains a primer and a pyrotechnic delay column. Assembled to the body are a striker, striker spring, safety lever, safety pin with pull ring, and a detonator assembly. The detonator contains lead azide, lead styphnate, and RDX. The split end of the safety pin has an angular spread or diamond crimp.

The hand grenade safety clip is designed to keep the safety lever in place, should the safety pin be unintentionally removed from the grenade. It is an additional safety device used in conjunction with the safety pin. Safety clips, of spring steel wire, consist of a loop, which fits around the threaded section of the fuze, and a clamp, which fits over the safety lever.



Grenade, Hand Offensive MK3A2  
(DODIC G911)



# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC G911 is classified as 1.1F munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# Packaging

## Packaging

The packaging configuration for DODIC G911 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
1330-00-194-2768	MK3A2	Packaged 1grenade/PA76 Fiber Container, 20 containers/wooden box, 54 boxes/wood pallet	1/PA76 Fiber Container	20/Wooden Box

# OUTTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced

# INNER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
Lot number, smoke color missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
Opened inner container	N/A	Proceed to Individual Item inspection.	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the lot number on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

# VISUAL



Inner Container with Markings  
(DODIC G911)



Opened Inner Container  
(DODIC G911)

# INDIVIDUAL ITEM safety precautions

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
Safety pin missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety clip missing, damaged (on newer models)	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Pull ring missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than M206A2 fuze)	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Lot number on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	

# INDIVIDUAL ITEM CHECKLIST

Fuze loose, not in full 360 <sup>o</sup> contact with gasket	Major	Hand-tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

*Note:*

*(1) Prior to repackaging and returning to storage, ensure that the lot number matches the inner/outer container.*



# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

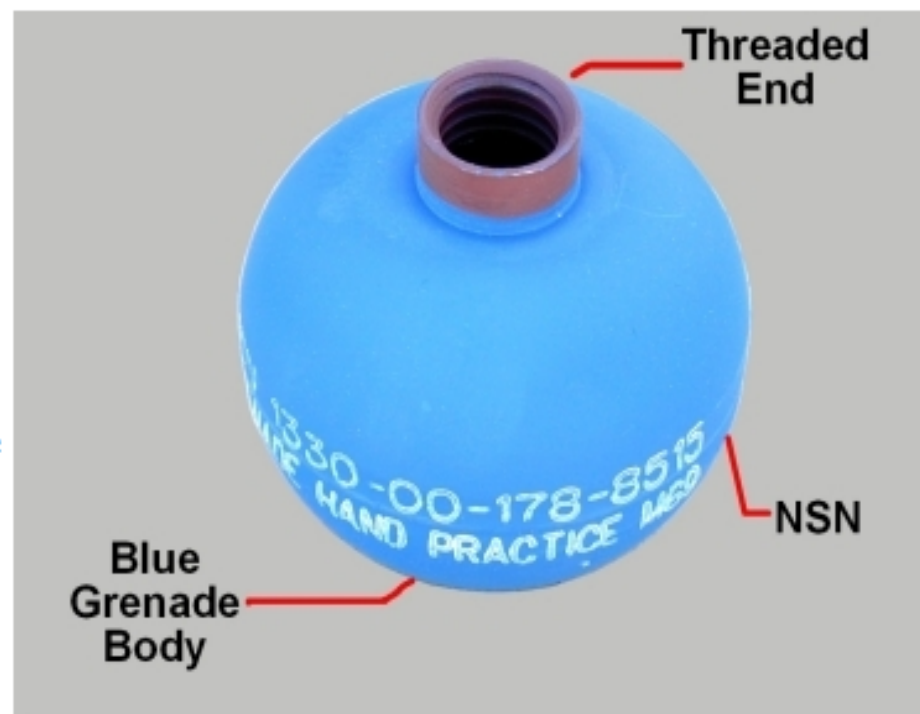
**PRACTICE/TRAININ  
G**

# DODIC G811 Body M69

## Item Description

The Grenade, Practice Hand Body M69 (DODIC G811) is used in conjunction with the M228 Grenade Fuze ([DODIC G878](#)) to simulate a practice version of the M67 Hand Fragmentation Delay Grenade ([DODIC G881](#)). The M69 Grenade consists of a steel body that is identical in shape to the M67 Fragmentation Grenade. The M69 body is colored blue with white markings and has an open threaded end where the fuze is installed. The assembled grenade is approximately 3.35 inches (8.51 centimeters) in length and weighs approximately 14 ounces (369.9 grams).

The M69 Practice Grenade functions in the same manner the M67 Fragmentation Grenade, except instead of detonating, the fuze assembly provides a puff of smoke upon exploding. Removal of the safety pin permits release of the safety lever. When the safety lever is released, it is forced away from the grenade body by a striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense flame, igniting the delay element burning for 4 to 5 seconds, then sets off the practice charge that is part of the fuze assembly. After use, the expended grenade may be recovered and reloaded with a new fuze assembly. The grenade is issued separately from the fuze assembly ([DODIC G878](#)).



**Grenade, Practice Hand  
Body M69 (DODIC G811)**

# Safety precautions

## Safety Precautions

### WARNING

If grenade is returned with the M228 Fuze installed in body, **DO NOT** attempt to separate the fuze from the grenade. Place fuzed grenade in a safe area and notify OIC/NCOIC immediately.

The DODIC G811 is an inert item and is safe to handle. There is no hazard classification for this item.

## Packaging

The packaging configuration for DODIC G811 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-178-8515</a>	M69	Packaged 50 grenades/fiberboard box in barrier bag, 1 fiberboard box/wooden box, 30 boxes/wood pallet	<a href="#">50/Fiberboard Box</a>	<a href="#">50/Wooden Box</a>

# packaging

## Packaging

The packaging configuration for DODIC G811 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-178-8515</a>	M69	Packaged 50 grenades/fiberboard box in barrier bag, 1 fiberboard box/wooden box, 30 boxes/wood pallet	<a href="#">50/Fiberboard Box</a>	<a href="#">50/Wooden Box</a>

# OUTTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible	Major	Proceed to <u>Inner Container inspection</u> and attempt to determine missing information Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <u>Individual Item inspection</u> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<u>or damaged/missing hardware (sallee closures, seals, hinges, etc.) used to secure the outer container</u>	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers that do not meet minimum standards.

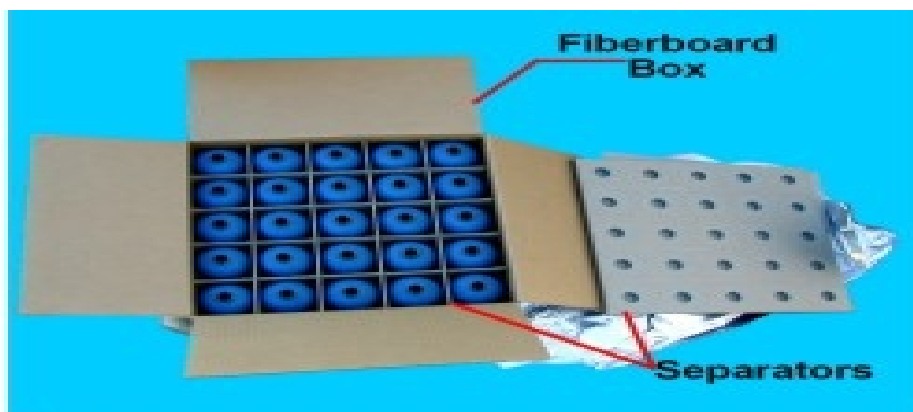
# VISUAL



**Sealed Barrier Bag  
(DODIC G811)**



**Inner Container with Markings  
(DODIC G811)**



**Opened Inner  
Container (DODIC G811)**

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Markings</a> marked on grenade body incorrect, missing, or illegible	Minor	Attempt to determine missing information. Follow local ASP procedure for disposition if missing information cannot be determined.	
Unauthorized M228 Fuze installed	Critical	Place fuzed grenade in a safe area. Notify OIC/NCOIC immediately.	
<a href="#">Cardboard separators</a> missing or damaged	Minor	Replace if possible.	
<a href="#">Threaded open end</a> damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	



# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

# DODIC G982 Smoke TA M83

## Item Description

The Grenade, Hand Smoke Terephthalic Acid (TA) M83 (DODIC G982) is a burning type grenade used to generate white smoke for screening activities of small units. It is also used for ground-to-air signaling. The M83 Grenade consists of an olive drab cylinder of thin sheet metal with a blue band, light green markings, and a white top. It is filled with TA smoke mixture topped with a starter slug directly under the fuze opening. The duration of smoke screen or signal is 25 to 70 seconds, average burn time.

The M83 Grenade comes with a M201A1 Pyrotechnic Delay-Igniting Fuze (DODIC G874). The M201A1 Fuze contains a primer, pyrotechnic delay column, and starter slug. The body is assembled with a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades.



Grenade, Hand Smoke TA M83  
(DODIC G982)

# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

The DODIC G982 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# PACKAGING

## Packaging

The packaging configuration for DODIC G982 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-01-380-0287</a>	M83	Packaged <a href="#">1 grenade/fiberboard tube</a> , <a href="#">16 tubes/wirebound</a> wooden box, 45 boxes/pallet.	<a href="#">1/Fiber Container</a>	<a href="#">16/Wooden Box</a>

# OUTER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<u>Opened containers</u> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers that do not meet minimum standards.

# VISUALS



Outer Container with Markings  
(DODIC G982)



Opened Outer Container

Outer Container with Markings (DODIC G982)

# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
Loose grenades (not in fiber containers)	Major	Proceed to Individual Item inspection.	(2)
<u>Opened inner container</u>	N/A	Proceed to Individual Item inspection.	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) Prior to repackaging and returning to storage, ensure that the lot number on the inner containers match the markings on the outer container.

(2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

# Individual item safety precautions

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

Visually inspect the [individual item](#). The individual item packaging configuration is provided under the [Packaging Configuration Table](#). The inspection criteria for the individual item are given in the Inspection Criteria Table for Individual Item below.



# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<a href="#">Safety pin</a> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Pull ring</a> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <a href="#">M201A1 fuze</a> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Safety lever</a> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Lot number</a> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1), (2)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Tape missing, loose, damaged on bottom <a href="#">emission hole</a>	Minor	Place approved ordnance/duct tape over emission holes.	

# INDIVIDUAL ITEM CHECKLIST (cont)

Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Grenade contents loose	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fuze loose, not in full 360° contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the [lot number](#) match the outer container.
- (2) Lots after February 2008 have a light green band. Lots made before March 2008 have a blue band. All available assets for G982 are authorized for tactical or training operators. Refer to N/MC AIN 10-0089 for more information on.

# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

# G982 Smoke TA M83

## Item Description

The Grenade, Hand Smoke Terephthalic Acid (TA) M83 (DODIC G982) is a burning type grenade used to generate white smoke for screening activities of small units. It is also used for ground-to-air signaling. The M83 Grenade consists of an olive drab cylinder of thin sheet metal with a blue band, light green markings, and a white top. It is filled with TA smoke mixture topped with a starter slug directly under the fuze opening. The duration of smoke screen or signal is 25 to 70 seconds, average burn time.

The M83 Grenade comes with a M201A1 Pyrotechnic Delay-Igniting Fuze (DODIC G874). The M201A1 Fuze contains a primer, pyrotechnic delay column, and starter slug. The body is assembled with a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades.



Grenade, Hand Smoke TA M83  
(DODIC G982)

# SAFETY PRECAUTIONS

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle a grenade by its safety pull ring. The safety pin might separate from the fuze.

The DODIC G982 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# PACKAGING

## Packaging

The packaging configuration for DODIC G982 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-01-380-0287</a>	M83	Packaged <a href="#">1 grenade/fiberboard tube</a> , <a href="#">16 tubes/wirebound</a> wooden box, 45 boxes/pallet.	<a href="#">1/Fiber Container</a>	<a href="#">16/Wooden Box</a>

# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<u>Opened containers</u> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc. or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers with cosmetic damage if not

# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
Loose grenades (not in fiber containers)	Major	Proceed to Individual Item inspection.	(2)
<a href="#">Opened inner container</a>	N/A	Proceed to Individual Item inspection.	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) Prior to repackaging and returning to storage, ensure that the [lot number](#) on the inner containers match the markings on the outer container.

(2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<a href="#">Safety pin</a> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Pull ring</a> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than <a href="#">M201A1 fuze</a> )	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Safety lever</a> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<a href="#">Lot number</a> on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1), (2)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Tape missing, loose, damaged on bottom <a href="#">emission hole</a>	Minor	Place approved ordnance/duct tape over emission holes.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP	

# INDIVIDUAL ITEM CHECKLIST (cont)

Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Grenade contents loose	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fuze loose, not in full 360° contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the lot number match the outer container.
- (2) Lots after February 2008 have a light green band. Lots made before March 2008 have a blue band. All available assets for G982 are authorized for tactical or training operators. Refer to N/MC AIN 10-0089 for more information on.

# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

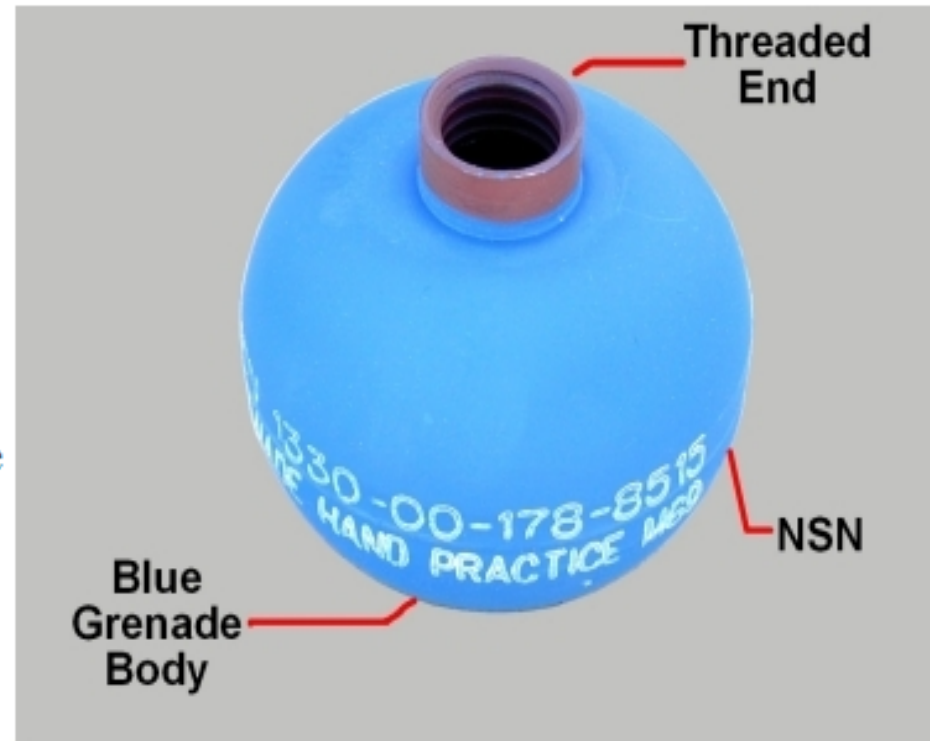
Ammunition Unserviceable, Suspended and Limited Use

# G811 body m69

## Item Description

The Grenade, Practice Hand Body M69 (DODIC G811) is used in conjunction with the M228 Grenade Fuze ([DODIC G878](#)) to simulate a practice version of the M67 Hand Fragmentation Delay Grenade ([DODIC G881](#)). The M69 Grenade consists of a steel body that is identical in shape to the M67 Fragmentation Grenade. The M69 body is colored blue with white markings and has an open threaded end where the fuze is installed. The assembled grenade is approximately 3.35 inches (8.51 centimeters) in length and weighs approximately 14 ounces (369.9 grams).

The M69 Practice Grenade functions in the same manner the M67 Fragmentation Grenade, except instead of detonating, the fuze assembly provides a puff of smoke upon exploding. Removal of the safety pin permits release of the safety lever. When the safety lever is released, it is forced away from the grenade body by a striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense flame, igniting the delay element burning for 4 to 5 seconds, then sets off the practice charge that is part of the fuze assembly. After use, the expended grenade may be recovered and reloaded with a new fuze assembly. The grenade is issued separately from the fuze assembly ([DODIC G878](#)).



**Grenade, Practice Hand  
Body M69 (DODIC G811)**

# SAFETY precautions

## WARNING

If grenade is returned with the M228 Fuze installed in body, **DO NOT** attempt to separate the fuze from the grenade.  
Place fuzed grenade in a safe area and notify OIC/NCOIC immediately.

The DODIC G811 is an inert item and is safe to handle. There is no hazard classification for this item.

# packaging

## Packaging

The packaging configuration for DODIC G811 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-00-178-8515</a>	M69	Packaged 50 grenades/fiberboard box in barrier bag, 1 fiberboard box/wooden box, 30 boxes/wood pallet	<a href="#">50/Fiberboard Box</a>	<a href="#">50/Wooden Box</a>

# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">or damaged/missing hardware (sallees, closures, seals, hinges, etc.) used to secure the outer container</a>	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) At a minimum, the markings should include the [DODIC, lot number, NSN, and quantity](#).

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



# INNER CONTAINER checklist

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible on <a href="#">barrier bag</a> and/or <a href="#">fiberboard box</a>	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure if the lot number cannot be determined. Correct markings as required.	(1)
Other markings missing or illegible on barrier bag and/or fiberboard box	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Barrier bag wet/damp, caked with mud/dirt	Minor	Wipe clean and repack if unopened and undamaged. Do not repack wet containers.	
Barrier bag opened, torn, or punctured	Minor	Inspect fiberboard box.	
Small dents, wrinkles, and buckles on fiberboard box	Minor	Repack as required if unopened.	
<a href="#">Opened container</a> , torn, or punctured	Minor	Proceed to Individual Item inspection.	(2)
Fiberboard box wet/damp, caked with mud/dirt	Major	Proceed to Individual Item inspection.	(2)
No defects	N/A	Follow local ASP procedure for securing ammunition.	

## Notes:

(1) Prior to repackaging and returning to storage, ensure that the [DODIC, lot number, NSN, and quantity](#) on the inner containers match the markings on the outer container.

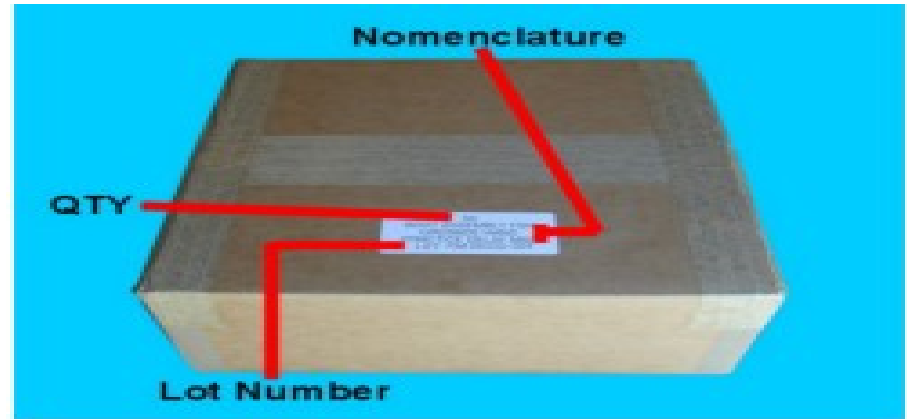
(2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



# VISUAL PACKAGING

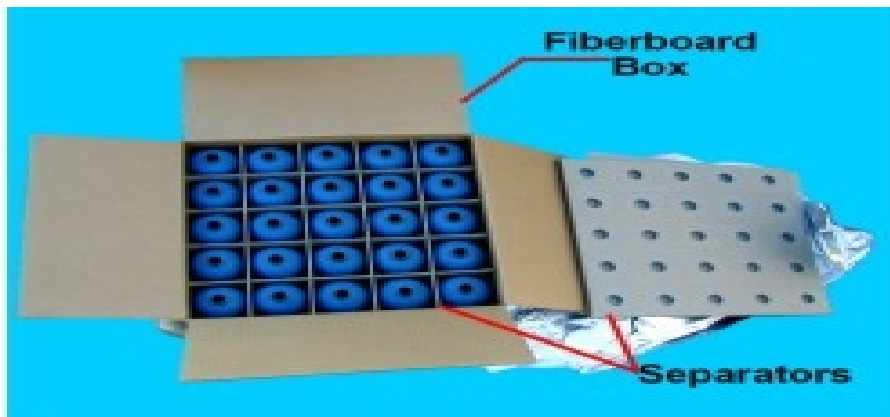


**Sealed Barrier Bag  
(DODIC G811)**



**Inner Container with Markings  
(DODIC G811)**

Inner Container with Markings



**Opened Inner  
Container (DODIC G811)**

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Markings</a> marked on grenade body incorrect, missing, or illegible	Minor	Attempt to determine missing information. Follow local ASP procedure for disposition if missing information cannot be determined.	
Unauthorized M228 Fuze installed	Critical	Place fuzed grenade in a safe area. Notify OIC/NCOIC immediately.	
<a href="#">Cardboard separators</a> missing or damaged	Minor	Replace if possible.	
<a href="#">Threaded open end</a> damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

# INDIVIDUAL ITEM CHECKLIST (cont)

Unauthorized M228 Fuze installed	Critical	Place fuzed grenade in a safe area. Notify OIC/NCOIC immediately.	
<u>Cardboard separators</u> missing or damaged	Minor	Replace if possible.	
<u>Threaded open end</u> damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

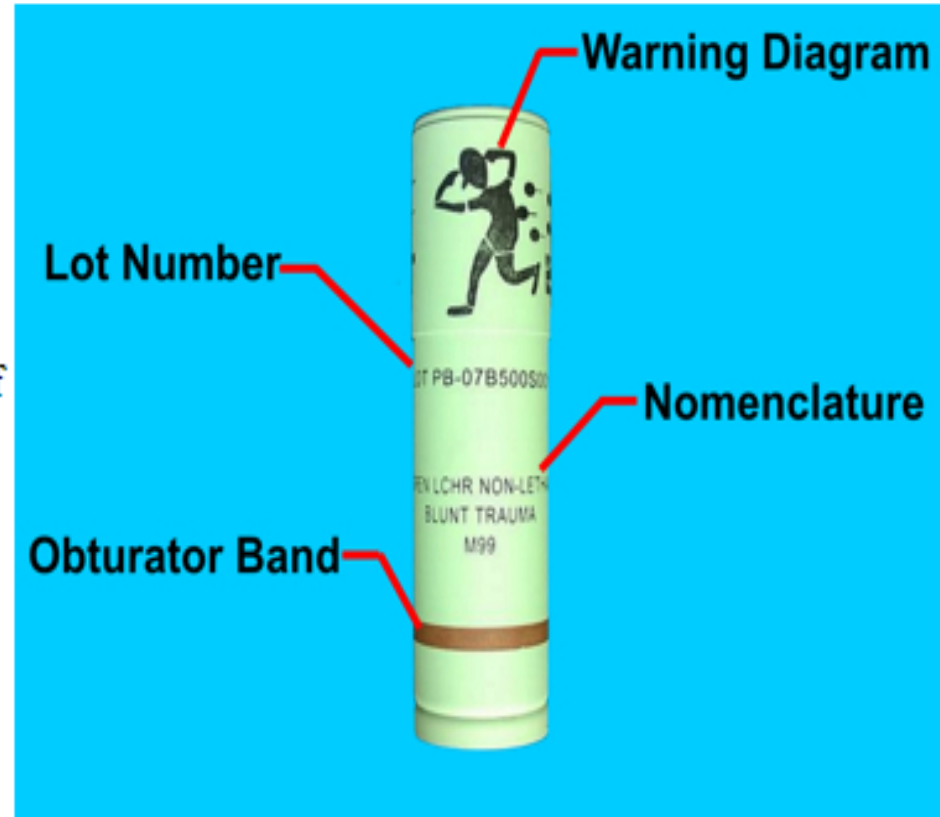
**NON LETHAL**

# FZ17 Blunt Trauma M99

## Item Description

The Grenade, Discharger Non-Lethal, Blunt Trauma M99 (DODIC FZ17) is used with the M7 and similar 66mm Grenade Launchers. This grenade can be used to allow friendly forces to conduct force protection without direct contact with rioting crowds. The grenade body is a cylinder of thin metal. The M99 grenade deters rioting crowds through audio, visual, and physical stimuli.

The M99 grenade uses the M90 smoke grenade design and replaces the smoke-filled sub munitions with M99 sub munitions. An injection-molded base, referred to as the propulsion base, contains electrical pins that hold the grenade in the 66mm launcher and complete the electrical circuit for firing. The propulsion base has an electric match used to ignite a pyrotechnic propulsion charge. There are 3 successive canisters each containing approximately 140, 0.32 caliber PVC balls as a payload.



**Grenade, Discharger Non-Lethal, Blunt Trauma M99 (DODIC FZ17)**

# SAFETY PRECAUTIONS

## WARNING

The M2A1 Metal Container may contain low concentration of chloroethene fumes and must be opened out of doors or in well-ventilated areas.

## WARNING

Do not handle or load M99s within 50 meters of a frequency transmitter emitting at 175 MHz, 448 MHz, 503 MHz, and 1430 MHz.

## WARNING

Do not touch any bare explosives with your hand.

The DODIC FZ17 is classified as 1.4S munition, and is safe to handle using standard precautions.



# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Outer Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Broken banding or improper banding	Major	Reband pallet	
Improper pallet build (stacked too high or too wide)	Major	Reband pallet with proper stacking of boxes	
Broken boxes on pallet	Major	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required. If item is exposed, then remove broken box and inspection item as described <a href="#">individual item</a>	
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined	(2), (3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) At a minimum, the markings should include the [DODIC, lot number, NSN, and quantity](#).

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing, or illegible	Major	Proceed to <u>Individual Item inspection</u> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Repackage with authorized ammunition containers prior to storage or issue. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Dents, buckles, heavy rust/corrosion, missing latch or hasp, or other surface damage	Minor	Proceed to Individual Item inspection.	(2)
Damaged metal ammunition can gasket	Major	Check for moisture contamination. If indications are found then proceed to Individual Item inspection	(2)
<u>Opened inner container</u> or missing factory seals	N/A	Proceed to Individual Item inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

*(1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.*

*(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.*

*(3) Follow local ASP procedures for securing and storing the ammunition if the inner*

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing, illegible, or incorrect	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
<u>Other marking</u> missing or illegible to the point item cannot be identified	Minor	Attempt to determine missing information. Follow local ASP procedure for disposition if item cannot be identified.	
<u>Leaking Canister</u> usually a white powder	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Component missing or incorrectly assembled	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Grenade deformed/distorted	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Holes or punctures completely through cylinder wall	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
<u>Electrical contacts</u> missing, bent, or corroded	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Metal foil covering gas propulsion holes missing, punctured, torn or not sealed	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Dry rot, splits, tears, holes or abrasions in body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Grenade wet/damp, caked in mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
<u>Styrofoam</u> packing material missing, damaged	Minor	Replace if possible. Otherwise, follow local ASP procedures for securing the ammunition.	
Styrofoam packing material wet/damp, caked with mud or dirt	Minor	Clean packing material and allow to dry. Do not repack ammunition in wet packing material.	

# INDIVIDUAL ITEM CHECKLIST (cont)

Ammunition returned in non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	(2)

## Notes:

(1) Prior to repackaging and returning to storage, ensure that the lot number match the outer container.

(2) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.

# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TM 43-0001-29

Army Ammunition Data Sheets for Grenades

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

# GG04 Grenade, Rubber Ball

## Item Description

The Grenade, Rubber Ball Non-Lethal 9590 (DODIC GG04) is used in crowd control situations where the use of non-lethal force is desired. The grenade body is a rubber sphere that contains a fuze well liner and is filled with a minimum of 100 rubber ball fragments. The rubber ball fragments have a minimum diameter of 0.25 inches. The grenade fuze is a M201A1-1 Pyrotechnic Delay-igniting Fuze. The fuze assembled contains a striker, striker spring, safety lever, safety pin with pull ring, and a detonator assembly. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades.

Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the fuze delay element, which in turn initiates the detonator assembly.



**Grenade, Rubber Ball Non-Lethal  
9590 (DODIC GG04)**

# SAFETY precautions

## WARNING

Do not handle grenade if safety pin/pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

If grenade is packed upside down (fuze down), do not attempt to remove grenade from its container. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC GG04 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring from the fuze.



# PACKAGING

## Packaging

The packaging configuration for DODIC GG04 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
<a href="#">1330-01-454-0132</a> 1330-01-503-1036	9590	Packaged 6/M2A1 Metal Container, 2 containers/wooden box, no palletization data	<a href="#">6/M2A1 Metal Container</a>	<a href="#">12/Wooden Box</a>



# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container.	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for disposition of containers that do not meet minimum standards.



# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate the inner container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Dents, buckles, heavy rust/corrosion, or other surface damage	Minor	Proceed to Individual Item inspection.	(2)
<a href="#">Opened container</a> or missing factory seals	N/A	Proceed to Individual Item inspection.	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

- (1) Prior to repackaging and returning to storage, ensure that the [DODIC, lot number, NSN, and quantity](#) on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition If the inner container is missing or unserviceable and cannot be replaced.

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Grenade packed upside down in inner pack	Critical	Do not remove grenade from its container. Notify OIC/NCOIC immediately.	
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Unauthorized fuze installed (other than M201A1-1 fuze)	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Safety lever missing	Major	The grenade may be a misfire. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Critical	Remove defective ammunition and place in a holding area. Follow local ASP procedure for disposition.	
Tape missing, loose, damaged on top and/or bottom emission holes	Minor	Place approved ordnance/duct tape over emission holes.	
Fuze loose, not in full 360° contact with gasket	Major	Hand tighten loose fuze. If the fuze cannot be hand tightened, then place the defective ammunition in a holding area. Follow local ASP procedure for disposition.	

# INDIVIDUAL ITEM CHECKLIST (cont)

Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Fiberboard</u> container missing or damaged	Minor	Replace if possible	(1)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

**Note:**

*(1) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.*

# REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

# GG20 Diversionary, BTV-1 EL, MK13 MOD 0

## Item Description

The Grenade, Hand Diversionary MK13 MOD 0 (DODIC GG20) is a pyrotechnic device (grenade) used for diversionary purposes. The diversionary charge is a low hazard, nonshrapnel producing explosive device that produces intense flash and sound report. This replaces the Charge, Diversionary MK141 Mod 0 (DODIC DWBS) due to safety and reliability concerns. There are two main components of this grenade: the grenade body and the fuze.

The grenade body consists of an aluminum cylinder. The top of the body has a central opening. An adapter, which accommodates the fuze, is secured to that central opening. Both the top and the base of the grenade consist of an aluminum plate which has 6 holes sealed with aluminum foil disks.

The pyrotechnic delay-igniting fuze contains a primer and a pyrotechnic delay column. Assembled to the fuze body are a striker, striker spring, fly-up safety lever, and twist and pull safety pin with pull ring. Safety clips are not required with these grenades.

The twist and pull safety pin cannot be pulled before it is rotated counterclockwise out of the locking position. Removal of the twist and pull safety pin permits release of the fly-up safety lever which remains secured to the grenade by the retaining spring. When the fly-up safety lever is released, the striker acting under the force of the striker spring, rotates on its own axis, strikes the percussion primer and fires it.



**Diversionary Hand Grenade  
(DODIC GG20)**

# SAFETY precautions

## WARNING

Do not handle grenade if twist and pull safety pin, pull ring or safety lever is missing. Notify OIC/NCOIC immediately.

## WARNING

Never carry or handle grenade suspended by safety pull ring.

The DODIC GG20 is classified as 1.4G munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the twist and pull safety pin and pull ring from the fuze.



# PALLET CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined	(1), (2)
Broken banding or improper banding	Major	Reband pallet	
Improper pallet build (stacked too high or too wide)	Major	Reband pallet with proper stacking of boxes	
Lot number missing or illegible	Major	Proceed to <a href="#">Outer Container inspection</a> and attempt to determine missing information. Correct markings as required. If item is exposed, then remove broken box and inspection item as described individual item	(3)
Severely dented or punctured metal drums on pallet	Major	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required. If item is exposed, then remove severely dented or punctured items and inspect item as described individual item.	(2)
Other markings missing, illegible, or incorrect	Minor	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(2) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.

(3) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.



# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> , smoke color missing or illegible	Major	Proceed to <u>Individual Item inspection</u> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp container, caked with mud or dirt	Major	Proceed to Individual Item inspection.	(2)
Opened inner container	N/A	Proceed to Individual Item inspection.	(2)
Missing or broken protective foam housing	Major	Proceed to Individual Item inspection.	(2)
Missing desiccant bag	Major	Pack with a desiccant bag that will fit in the metal container	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity and ensure the lot number matches the one on the outer container or pallet.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc..



# PAKCAGING VISUAL



**Outer Container with Markings  
(DODIC GG20)**



**Opened Outer Container  
(DODIC GG20)**



**Foam Cover Removed**

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Fuze twist and pull safety pin loose, unauthorized, damaged, not spread	Critical	Secure the twist and pull safety pin with ordnance/duct tape. Place defective ammunition in a holding area.	(1)
Fuze lugs cracked or missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately	(1)
Unauthorized fuze installed (other than CSA Mk 4 Fuze)	Critical	Place defective ammunition in a holding area.	(1)
Twist and pull safety pin missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	(1)
Fuze loose and/or adapter loose	Major	Hand-tighten loose fuze and/or adapter. If the fuze or adapter cannot be hand tightened, then place the defective ammunition in a holding area.	(1)
Pull ring missing, damaged, or unauthorized	Major	Place defective ammunition in a holding area.	(1)
Fly-up safety lever bent, damaged	Major	Place defective ammunition in a holding area.	(1)
Cracks in body to the extent that content is exposed	Critical	Place defective ammunition in a holding area.	(1)
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area.	(1)
Grenade contents loose	Major	Place defective ammunition in a holding area.	(1)
Unsealed disk(s) over exhaust holes	Major	Place defective ammunition in a holding area.	(1)
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area.	(1)
Heavy rust or corrosion	Major	Place defective ammunition in a holding area.	(1)
Lot number or smoke color on grenade body incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number or smoke color cannot be determined.	(2)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	(1), (3)

(1) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.

(2) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.

(3) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

# VISUAL



**Exhaust Holes  
(DODIC GG20)**

# REFERENCES

- NONE

# GG05 Grenade, Practice Body Non-Lethal

## Item Description

The Grenade, Practice Body Non-Lethal (DODIC GG05) is the practice version of [DODIC GG04](#). The grenade body is a rubber sphere that contains a fuze well liner and is filled with .50 caliber rubber pellets. The rubber ball pellets remain within the body. The grenade body was designed to be utilized with the M201A1-1 Pyrotechnic Delay-igniting Fuze ([DODIC G874](#)).



Grenade, Practice Body Non-Lethal  
(DODIC GG05)

# SAFETY precautions

The DODIC GG05 is completely inert. There is no hazard classification for this item.

# packaging

## Packaging

The packaging configuration for DODIC GG05 is given in the Packaging Configuration Table below.

**Packaging Configuration Table**

NSN	Model	Packaging	Inner Container	Outer Container
1330-01-454-0099	None	Packaged 6/M2A1 Metal Container, 2 containers/wooden box, no palletization data or as required	6/M2A1 Metal Container or as required	12/Wooden Box or as required

# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container.	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

(1) At a minimum, the markings should include the [DODIC](#), [lot number](#), [NSN](#), and [quantity](#).

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



# VISUAL PACKAGING



**Outer Container with Markings  
(DODIC GG05)**



**Opened Outer Container  
(DODIC GG05)**

# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container or crushed container	Major	Proceed to Individual Item inspection.	(2)
Dents, buckles, heavy rust/corrosion, or other surface damage	Minor	Proceed to Individual Item inspection.	(2)
<a href="#">Opened container</a> or missing factory seals	N/A	Proceed to Individual Item inspection.	
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

## Notes:

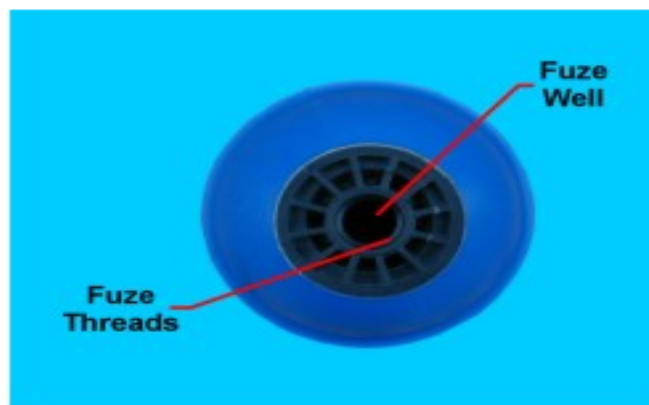
- (1) Prior to repackaging and returning to storage, ensure that the [DODIC, lot number, NSN, and quantity](#) on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedures for securing and storing the ammunition. If the inner container is missing or unserviceable and cannot be replaced.

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Fuze well threads</u> damaged to extent that fuze cannot be installed	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Split seams or swollen grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cracks in body to the extent that content is exposed	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Minor	Clean and wipe dry. Repack as required. Do not repack wet ammunition.	
Non-unit pack	N/A	Follow local ASP procedures for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	



**Lot Number  
(DODIC GG05)**



**Fuze Well  
(DODIC GG05)**

# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

# G878 Fuze, Hand Grenade Practice

## Item Description

The Fuze, Hand Grenade Practice M228 (DODIC G878) is a pyrotechnic delay-igniting fuze. DODIC G878 is used with the Grenade, Hand Practice M69 ([DODIC G811](#)). The body contains a primer and a pyrotechnic delay column. Assembled to the body are a striker, striker spring, safety lever, safety pin with pull ring, safety clip, and igniter assembly. (Older models do not have the safety clip.) The split end of the safety pin has an angular spread or a diamond crimp. One fuze weighs approximately 2.5 ounces.



Fuze, Hand Grenade Practice M228  
(DODIC G878)

# SAFETY precautions

## Safety Precautions

### WARNING

Do not handle fuze if safety pin/pull ring and safety are missing. Notify OIC/NCOIC immediately.

### WARNING

Never carry or handle the fuze suspended by safety pull ring or safety clip.

The DODIC G878 is classified as 1.4B munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the safety pin/pull ring or the safety clip from this fuze.



# OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<a href="#">Lot number</a> missing or illegible	Major	Proceed to <a href="#">Inner Container inspection</a> and attempt to determine missing information. Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
<a href="#">Other markings</a> missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to <a href="#">Individual Item inspection</a> . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
<a href="#">Opened containers</a> or damaged/missing hardware (sallee closures, seals, hinges, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

(1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer

# INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible on <a href="#">barrier bag</a> and/or <a href="#">fiberboard box</a>	Major	Proceed to <a href="#">Individual Item inspection</a> and attempt to determine missing information. Follow local ASP procedure if the lot number cannot be determined. Correct markings as required.	(1)
Other markings missing or illegible on <a href="#">barrier bag</a> and/or <a href="#">fiberboard box</a>	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Barrier bag wet/damp, caked with mud/dirt	Minor	Wipe clean and repack if unopened and undamaged. Do not repack wet containers.	
Barrier bag opened, torn, or punctured	Minor	Inspect fiberboard box.	
Small dents, wrinkles, and buckles on fiberboard box	Minor	Repack as required if unopened.	
<a href="#">Opened Container</a> opened, torn, or punctured	Minor	Proceed to Individual Item inspection.	(2)
Fiberboard box wet/damp, caked with mud/dirt	Major	Proceed to Individual Item inspection.	(2)
No defects	N/A	Follow local ASP procedure for securing ammunition.	

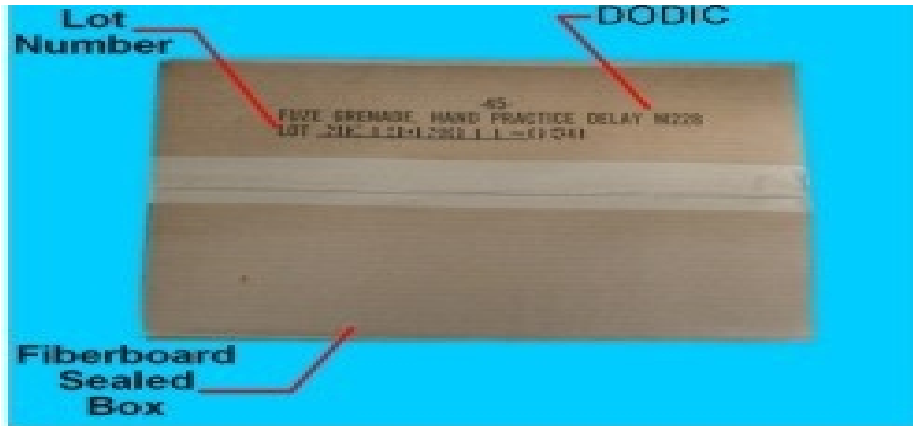
## Notes:

(1) Prior to repackaging and returning to storage, ensure that the [DODIC, lot number, NSN, and quantity](#) on the inner containers match the markings on the outer container.

(2) Follow local ASP procedures for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



# PACKAGING VISUAL



**Inner Container with Markings (DODIC G878)**



**Opened Inner Container (DODIC G878)**

**Inner Container with Markings (DODIC G878)**



**Lot Number (DODIC G878)**

# INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Safety pin</u> missing	Critical	Do not handle grenade. Notify OIC/NCOIC immediately.	
Safety pin loose, unauthorized, damaged, not spread	Critical	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety clip</u> missing, damaged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Igniter case assembly</u> is crushed, or cracked exposing igniting compound	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Igniter case assembly damaged to extent that it cannot be installed into M69 Grenade body	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Pull ring</u> missing, damaged, or unauthorized	Major	Secure the safety pin with tape. Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Fuze thread</u> damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Safety lever</u> bent, damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Lot number</u> incorrect, missing, or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined.	(1)
Heavy rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	

*(1) Prior to repackaging and returning to storage, ensure that the lot number matches the outer container.*

# REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TM 43-0001-29	Army Ammunition Data Sheets for Grenades
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

# **SUMMARY**

# SUMMARY

- ***NAVSEA SWO20-AC-SAF-010/020/030/040*** series provides storage compatibility and Data is given on each explosive round or component, including its description, packaging details, requirements for international and domestic transportation, storage requirements, and any loading documentation available on the item.
- ***NAVSEA SWO20-AF-HBK-010*** provides driving regulations and safe driving guidelines particularly applicable to the explosives driver.
- **M.A.K.E.** (Marine Ammunition Knowledge Enterprise) contains a plethora of information for any user